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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/002,300	12/05/2001	Nobuyoshi Yagi	Q67366	4399
7590	11/17/2004			EXAMINER
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W. Washington, DC 20037			AHMED, SHEEBA	
			ART UNIT	PAPER NUMBER
			1773	

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/002,300	YAGI ET AL.
	Examiner Sheeba Ahmed	Art Unit 1773

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 02 September 2004.  
 2a) This action is FINAL.                            2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-26 is/are pending in the application.  
 4a) Of the above claim(s) 8 and 21 is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-7,9-20 and 22-26 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 05 December 2001 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1)  Notice of References Cited (PTO-892)                            4)  Interview Summary (PTO-413)  
 2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)                            Paper No(s)/Mail Date. \_\_\_\_\_.  
 3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_\_.                            5)  Notice of Informal Patent Application (PTO-152)  
 6)  Other: \_\_\_\_\_.

## DETAILED ACTION

### *Response to Amendment*

1. Amendments to claims 1 and 4 have been entered in the above-identified application. New claim 26 has been added. **Claims 1-26 are pending of which 8 and 21 have been withdrawn from consideration.**

### *Claim Rejections - 35 USC § 112*

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-7, 9-20, and 22-26 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for **a resin sheet comprising a gas barrier layer having thickness of 2 to 10 microns, a base layer and two hard coat layers respectively as outermost layers, wherein one of the hard coat layers has recesses and protrusions having a peak-to-valley distance of from 20 to 80 microns, and a surface roughness of 80 to 500nm and at least one of the hard coat layer contains 1 to 50 vol. % of transparent particles having a particle size of 0.5 to 30 microns**, does not reasonably provide enablement for the invention as claimed. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to practice the invention commensurate in scope with these claims.

Page 10, lines 4-8 of the instant Specification state that "If the thickness of the organic gas barrier layer is smaller than 2 microns, a sufficient gas barrier function cannot be imparted. If it exceeds 10 microns, the resin sheet comes to have an increased yellowness index".

Page 15, lines 6-8 of the instant Specification state that "if the peak-to-valley distance of the hard coat layer is smaller than 20 microns or larger than 80 microns, a sufficient antiglare function cannot be imparted".

Page 16, lines 2-6 and the last paragraph of the instant Specification state respectively, that "the transparent particles have a particle diameter of from 0.5 to 30 microns" and "particle diameters smaller than 0.5 microns are undesirable in that the result is insufficient light diffusion, while particle diameters larger than 30 microns are undesirable in that the result is uneven light diffusion" and "the proportion of the transparent particles to the hard coat layer is from 1 to 50% by volume. If the proportion of the transparent particles to the hard coat layer is lower than 1% or higher than 50% , a sufficient light-dif fusing function cannot be imparted".

Hence, the above described gas barrier layer thickness, the peak-to-valley distance of the hard coat layer, the size of the transparent particles and the proportion of the transparent particle is critical in practicing the claimed invention.

### ***Response to Arguments***

3. Applicant's arguments with respect to the rejection of claims 1-4, 6, 7, 9-11, 13-20, and 22-25 under 35 U.S.C. 103(a) as being unpatentable over Sugawa et al. (US

6,500,518 B2) in view of Oka et al. (US 5,747,152) have been fully considered and are persuasive and hence the rejection has been withdrawn.

***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheeba Ahmed whose telephone number is (571)272-1504. The examiner can normally be reached on Mondays and Thursdays from 9:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571)272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Sheeba Ahmed  
Art Unit 1773  
November 11, 2004